

Essay Mock no. 8

Artificial Intelligence can be the savior of human race.

OUTLINE

1) Introduction

Thesis Statement :

Artificial Intelligence (AI) harbours immense potential to solve the woes of human race. Positive deployment of AI can solve issues in the realm of governance, economics, society, technology, environment and healthcare. However, like every human invention, AI also needs to be regulated for it to be a savior for human race.

2) AI has several solutions to offer to the human race.

3) AI-assisted governance for greater human welfare

a) AI models to identify neglected areas

b) AI-assisted social welfare programs

4) AI can spur economic growth and innovation

a) AI to assist in microfinance development

Case in point: UN Women Asia and Pacific microfinance program

b) AI and the rise of freelancing

5) AI for promoting social justice and greater human equality

a) AI models to predict racial-ethnic clashes

b) AI for identifying and removing hate speech from social media platforms

Case in point: Meta using AI to control anti-muslim rhetoric in

Myanmar

c) Using AI to control AI biasedness

6) AI can prevent the climate doom

a) AI can predict potential pollution sources

b) AI to control wildfires

Case in point: Portugal's AI-based drone system

c) AI can predict climate disasters (Droughts and floods)

7) AI and the future of healthcare

a) AI-models for teleconsultation and telemedication

b) AI assisted control of Alzheimer's disease progression

c) AI based robots for assistance in operations

Case in point: Use in Liver transplantation

8) Enhancing the 'pros' of AI and limiting the 'cons' for maximum human benefit.

a) The reservations of AI-doomers need to be taken seriously

b) World leaders to work together for regulating AI

c) Stopping the AI technology from falling into the ~~wrong~~ wrong hands

9) Conclusion

The year is 2055 and the world is unrecognizable. The world is peaceful and harmonious. The climate doom has been averted, people previously struggling with poverty and hunger have been satiated, racial-ethnic clashes are being controlled effectively by world governments and general standards of health have greatly improved — all because of ^{the} miracles of Artificial Intelligence (AI). This picture of a utopic world may seem unattainable but a closer look at the potentials of AI tells us that all of this achievable.

Artificial Intelligence (AI) harbours immense potential to solve the woes of human race. Positive deployment of AI can solve issues in the realm of governance, economics, society, technology, environment and healthcare. However, like every other human invention, AI also needs to be regulated for it to be a savior for human race.

In the realm of governance, AI can be used to address the issues of equitable resource disbursement. It can also help alleviate poverty by spurring economic growth in backward areas. Unlike what AI-doomers project, AI can actually have positive impact on social cohesion and harmony. It can assist in eradicating racial

and ethnic clashes. By far, the most promising prospects that AI has to offer are in the area of environmental science. AI has the potential to reverse all the damage that the human race has posed to biosphere so far. Lastly it has the ability to improve the prospects of healthcare for the human population that is growing in number. AI has the ability to bring a fairytale to life. However, its regulated use is necessary to reap these benefits and to minimize its drawbacks.

In

In simple words, AI refers to the use of machine learning models of computer processing for faster and self-regulated data processing. However, the critique against AI stems from its very name "Artificial" - Since the mainstreaming of AI-technology, the AI-doomers are scaring the world with their self-designed AI-doom scenarios. However, the world needs to realize that every technology is merely a tool for mankind. Using it for our benefit or for our destruction

depends on how we wield it. AI can be a tool for us to turn this polluted, hungry, mis-managed and chaotic world into a happy place. The world needs to realize this potential and work towards its attainment.

AI finds its most crucial application in the field of governance. It can be used to ensure effective and equitable governance. It can be used to identify neglected areas under a government. The idea is to use geographic and demographic data identify the effect of government programs, how these programs are dealing with specific demographic needs and what more needs to be done to tailor those programs to the requirements of neglected population. European Union has emerged as a torch bearer in this regard - It is already using AI in its law enforcement policies to target the areas that are prone to terrorist activities and street crimes. This is an excellent manifestation of how AI can be used for effective governance.

AI-assisted social welfare programs ^{is} ~~are~~ another potential area for AI. It is based on the idea that the government should keep a close look at the effects and responses of its social protection programs. This helps them analyze the effects and predict possible impediments in their programs. Here again, the EU offers an interesting example. It has enacted its Artificial Intelligence Act in 2018 which regulates and surveys market performance. This helps them analyze the effect of different businesses on the society and vice versa. Social protection programs are also modified based on the market performance. (The Future Society, European AI Governance, 2023). Other Western nations are trying to replicate this model for their countries.

Several economists are working in collaboration with AI developers to reap the benefits of AI for economic growth. An interesting application in this area is the development of microfinance facilities for marginalized communities across the world. These AI-

assisted model first use demographic data to identify the marginalized groups within a population and then use this data to suggest options for the deployment of microfinance to those populations. UN Women is working on this project. Their aim is to identify such women who need financial assistance - It then deploys AI-assisted apps to enhance the financial literacy for these women. Providing them with mobile phone-based digital accounts is also a part of this initiative. (UN Women, Leveraging digital finance for gender equality and women's empowerment, 2019). This is indicative of the potentials of AI in welfare mode economics.

The rise of AI has also spurred the rise of self-employed freelancers which are assisted by AI to design, advertise and manage their services. With the introduction of Generative AI models like ChatGPT, it was speculated that AI will take over the jobs of creative professionals like writers, designers, advertizers and illustrators, however, it has been realized now

that AI can only assist in these creative professions — not take them over. After all the AI is still 'artificial' and cannot mimic human intelligence completely. With that being said, it is crucial to realize that the assistive potential of AI is transformed. It can be leveraged to boost productivity to new levels. The writers and editors at The Urban Writers, an online service offering writing services, are using AI models to enhance their creative potential and boost productivity. (The Urban Writers, 2023).

The question of social justice and human equality has been haunting the world leaders for decades now. The world has seen a rapid rise in social inequality and racial/ethnic violence. Interestingly, the AI technology has several solutions to offer here. According to the experts, AI-models can be trained by engineers to detect hotspots of racial-ethnic violence. These models can then assist law enforcement agencies in identifying areas that are prone

to such instances of violence. The law enforcement agencies can design and deploy effective strategies preemptively. Such models are already under process in EU and USA.

The control of hate-speeches and violence disseminating content has been a huge problem since the dawn of social media websites. Detecting and removing such content can be a laborious task. AI can help here by detecting and removing such content once it has been trained to do so.

Max Fisher in his book "The Chaos Machine" has explained how social media has spread propaganda against Muslims in Myanmar. After several protests, Meta has responded to calls for action - It is now removing all sorts of hate content from Facebook posted by Myanmar military and Buddhist citizens.

Another criticism against AI is that it replicates biasness against already marginalized factions including women and people of color. The CEO of Microsoft, Brad Smith, himself admits that AI risks social media's mistakes.

AI has a solution to offer here too. It can be used to regulate itself. Programmers have expressed hope that we can design AI-models that can 'stop and frisk' other AI-based programs for biased material and remove such material for good. Efforts like these can ensure a safe space for all both on social media and in the real world as well.

The year 2023 has seen rapid rise in AI-based solutions to control global warming and pollution. These technologies are based on the idea that AI can be linked to Geographic Information System (GIS) to predict the sources and location of pollution. Innovators in USA are pioneering such technology that ~~can~~ ^{will} be used to locate point and non-point sources of pollutions and predict potential pollution of water bodies years in advance. Technologies like these offer hope for controlling the spread of pollutants especially in the water bodies.

AI technology can be used to control wildfires as well. - Wildfires are a huge issue in North America, Australia and Brazil. Thousands of acres of land is ravaged each year by wildfires. AI can be used to predict such fires, locate them instantaneously and douse them before they get uncontrollable. This technology has been developed by Portugal. It uses large drones to douse fire in the areas that are inaccessible for humans (Dawn EOS, Future of firefighting, 2023). This technology offers an ingenious solution to the wildfire problem.

Prediction of potential climate disasters is yet another solution that AI has to offer. This may not seem like a big deal because surveillance systems are already in use that help in weather prediction. However, what's new with AI-based surveillance is that it can climate pattern analysis based on several decades. These models are efficient and precise. They have the ability to predict everything from a minor earthquake to a drought hotspot.

In the realm of healthcare, AI has a lot to offer. AI has the potential to change the face of our global healthcare system. AI-enabled consultation apps can help patients connect with their doctors in real-time in any part of the world. One such initiative is the 'Patient FIRST'. It is an AI and cloud-based teleconsultation and practice management tool in Pakistan. It assists physicians in managing daily clinic tasks and enables patients to book consultations and digitise medical records.

Another AI-assisted technology that programmers are working on is the tool that would help neurosurgeons track the severity of Alzheimer's disease and control its progression via different intervention tools. Scientists are working to develop such tool for other diseases like Cancer, CVD and Hepatitis. All of these models will help physicians control and predict disease progression resulting in better health outcomes for the patients.

AI-based robots have been developed for assisting doctors in operations too. Although this technology is in its initial stages, it has produced some impressive results. Recently, operating on liver transplant patients ^{in augmented reality} has shown promising results. The results have shown that these technologies can be extrapolated in other areas of human surgery to perform operations with much ease and efficiency. (Fadi H., AI in hepatology, 2021). All of these innovations reveal the potential of AI for healthcare system.

There is an inexhaustible list of the potentials of AI all of which point to the fact that it can be the ultimate savior of human race. However, there is a second side of this technology i.e., the perils of AI. Experts working with AI have raised some concerns regarding the threats of unregulated AI. The CEO of OpenAI Sam Altman and writers like Yuval Noah Harari have expressed such concerns. In this backdrop, it is essential that we work together to

eliminate the potential threats of AI in order to ensure its safe use.

There needs to be a consensus not only among the AI experts but also among the world leaders to regulate AI ensuring its safe and positive use. Currently, the European Union is leading in this area. It has signed its first AI policy in 2023. Also, it is set to launch its AI regulation in 2024. Countries like USA, UK, Germany and China are separately working to regulate AI in their countries but we need to remember that AI (and every other technology) is not restricted within boundaries and borders. Therefore, the world needs to come up with collaborated efforts to make AI a safe technology.

The savior status of AI depends on whether or not it stays in the hands of civilized world or falls into the hands of malicious forces. Regulated use and deployment of AI technology

is the only way to ensure that it is only used for good. Remember, fentanyl was discovered to be used as a general anesthetic until people started using it as a drug. Before AI technology gets out of control, the world needs to come up with a mechanism to ensure that it stays a medicinal drug and not become a drug of choice.

In summation, it can be said that AI has a limitless potential to become the savior of human race. It has the ability to streamline to every aspect of human life including how we live in societies, how we work; how we earn our livelihood; how we interact with our environment; and how well we live our lives.

A sweeping look at the potential applications of AI reveals that it has the ability to solve every problem that the world is facing currently. The biggest questions of our governance models, medical and environmental sciences can be solved via AI.

AI can help create harmonious societies

that are well-organized and have equitable division of resources. But then again, there is a thin line between being a savior and a destroyer. We don't need to read too much between the lines that AI pessimists say but we do need to regulate AI to ensure its safe use for the welfare of mankind.